

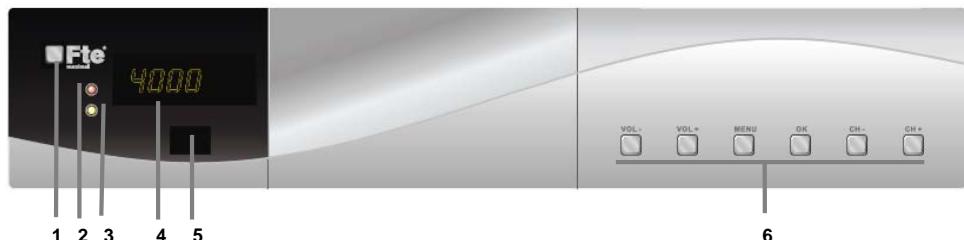
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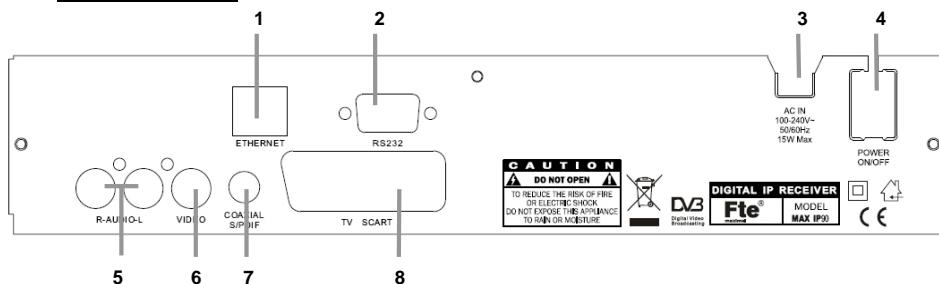
0. Control elements and connections

0.1. Receiver front panel



- 1 POWER:** Switches the receiver ON or in Standby mode. For total switching off, use the main switch at the back side of the receiver.
- 2 POWER LED:** Indicates that the mains voltage (90-230 VAC) is available.
- 3 LOCK LED:** Indicates a sufficient signal level at the input
- 4 DISPLAY:** 4 Digits to display the program numbers.
- 5 IR-SENSOR:** Reception sensor for the IR remote control signals
- 6 BUTTONS:** These buttons allow controlling the main functions of the receiver, and provide the same functionality as the remote control ones.

0.2. Receiver back panel



- 1 ETHERNET:** Network connection of the receiver.
- 2 RS-232:** Serial port to update the firmware of the receiver
- 3 AC IN:** Power cord 230VAC/50Hz.
- 4 POWER ON/OFF:** Main switch to switch off totally the receiver
- 5 AUDIO:** Audio output for home audio systems
- 6 VIDEO:** Video output for external monitor, TFT or video beamer
- 7 COAXIAL S/PDIF:** Coaxial output for digital audio (AC3)
- 8 TV SCART:** SCART output for connecting one TV set

0.3. Remote control

1. POWER: Switches receiver ON or in stand-by-mode

2. TEXT: Open and close teletext

3. MUTE: Switches audio on and off

4. NUMERIC BLOCK: For direct typing values and names

5. CH+ CH-: Changes channel up and down

6. VOL+ VOL-: Adjusts audio volume up and down

7. TV/R: Switches between TV and Radio Channels

8. EXIT: Exit menus or stop operations

9. MENU: Opens the main menu

10. BACK: Watch the last viewed channel

11. OK : Confirms selections or opens channel list

12. Color Keys: Controls menu options.

13. Green Button: *Not available in this model*

14. Red Button: *Not available in this model*

15. SAT: *Not available in this model*

16. EPG: Shows the EPG information

17. List: Opens channel list

18. Fav: Opens favourite channel list

19. Audio: Opens audio menu

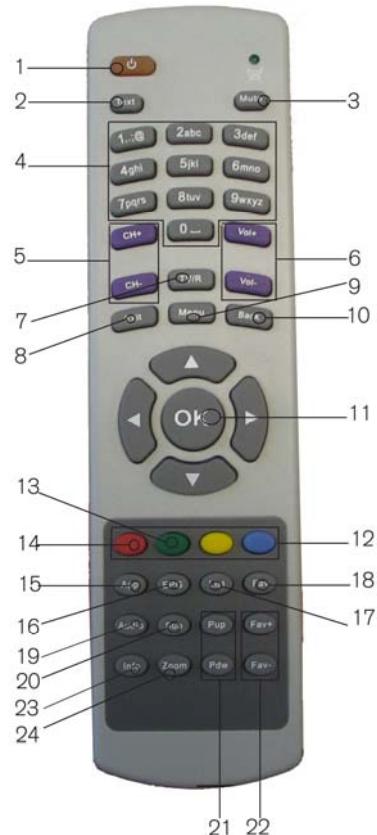
20. Sub: Switches subtitle on and off

21. Pup Pdw: Moves cursor in block steps

22. Fav+ Fav-: Moves favourite channel up and down

23. INFO: Shows channel information with signal bar

24. Zoom: Zoom function



1. First installation

1.1. Complete Content

The following goods must be included in this package when you open it for the first time.

Remote control



Installation guide



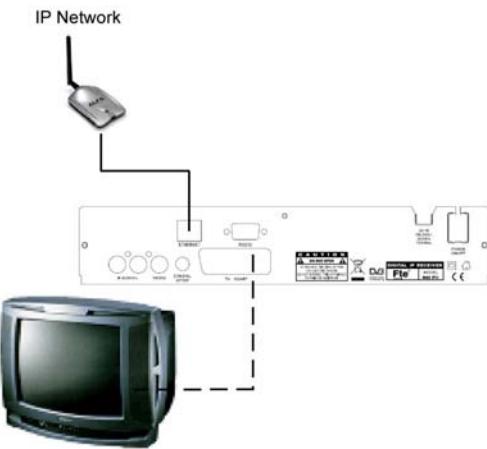
Two batteries
type AAA, Micro, 1,5V



CDROM



1.2. Installation examples



1.3. Safety rules

Please read the manual carefully before using the receiver.
You will receive a lot of information to use this product correctly and you will prevent incidents.
Please keep the manual on a safe place.



This sign warns you about high voltages, with risk of electric shock



Caution: Do not open the housing of this receiver. Repairs can only be made by professionals authorized by Fte maximal. If not, warranty will not be valid anymore.



This sign informs about special information which is important to know.

Caution: Keep this receiver far away from liquids. Do not place it on placements close to water like flowers vases, wash basin, aquariums or pools. It exists a high risk of electric shock when water or high humidity filters inside the receivers. Never place other devices on it; they can overheat the receiver as well as daring fire risk. The receiver must be used only with original power cord to 230V main plug.
 Please read carefully this manual and do not hesitate to contact to professional help if you have any doubt.

Opening the receiver housing as well as the Hard Disk case will mean a total lost of warranty.

Installation:

1. Never work during a thunderstorm or staying near of the antenna systems.
2. Before adjusting the receiver, make sure that your antenna is well aligned and works properly.
3. Unplug the main connection (230V) every time you work with receiver connections. Do it also when you stay away for a long time out of home like in holiday periods.
4. The best placement for the receiver is close to the TV and your other equipment like DVD, VCR, CD, and game stations. Select a stable place where you can make the necessary connections in a safety way.
 The 230V main plug should be in a place easy to reach, that you can unplug it when it is necessary.

Cleaning: Before cleaning the receiver with a slightly damped cloth, please disconnect the main 230 V connection from the receiver. Please use only mild cleaners.

Accessories: Please, do not use accessories which are not agreed by the manufacturer of the receiver. Unsuitable accessories could increase the risk of getting on fire, an electrical impact or other damages.

Placement: Select a placement where the Receiver has air circulation enough, otherwise it may have overheating accumulation. Do not cover the openings of the housing. Unsuitable placements are also places close to heaters or soft locations like e.g. sofas and beds.

Power connection: Select a main plug with easy access, in case of unplugging necessity; it will be easier and faster. Please, make sure that the cord as well as the plug is in perfect conditions. Do not pull the cable, use always the plug.

Housing: Please, make sure that no liquid will filter into the housing of the receiver. If so, disconnect immediately the receiver from the main 230 V plug and bring the receiver to a professional.

Air humidity: When you take the Receiver from a cold to a warm place, please wait until the receiver gets the same temperature as the new environment, in order to avoid problems of humidity condensation.

Maintenance / Repairing: Within the warranty time all the repairing processes should be done by Fte Maximal technical staff. Otherwise, the warranty will be lost.

1.4. Fast installation guide

Please, follow the instructions for a faster and simpler installation of the receiver.

Step 1: Connections

Connect the **ETHERNET** input of the receiver to the network.

Connecting TV set, LCD or video beamer:

Scart This is the connector which will be normally used to connect the TV.
For this purpose, you will need a Scart – Scart connector.

You can obtain further information in chapter 0.2 *Receiver back panel*.

When you set up the system for the first time, the current date will be stored in **Menu > System Settings > Version** as beginning date for the warranty period.

Step 2: Main settings on receiver

When you start the first time the receiver or when you execute a "factory default" process, you will see this installation guide in English language.

The selection of the menu options will be done with the arrow buttons     and the button **OK** of the remote control.



Please, choose the code for your remote control in the first window.
Fte Maximal gives you the possibility of using a IP, a DVB-T and a DVB-S receivers at the same time.

For this purpose, your new receiver is selected by factory with code 3.

You have the possibility to change the code of it, to do that you have to change the position of a switch in the remote control.

You have to select the same position in the receiver than in the remote control.



Menu Language:

Here you have to select the language for the Receiver menu and information.
Select the language with the arrow buttons   and press the **OK** button.



Time Zone:

In order to the receiver is able to display the correct time and adjust the timer recordings correctly, it is needed to fix the time zone to the place you live.

Select here the time delay according to your position comparing to Greenwich Time.

In UK: Summer time: +1 hours
 Winter time: GMT hour

Select with the arrow buttons   and press the **OK** button.



Date and Time

It is recommended to setup the clock before starting to enjoy the receiver.

Select with   the entry you want to change.

The entry will be modified by the buttons  .

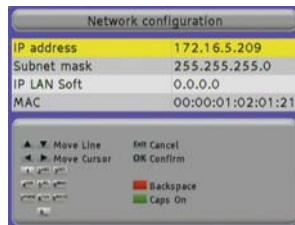
When you finished, press **OK**.

Network Configuration

The receiver will require the introduction of the needed parameters to be able to get connected to a network, as well as to be visible to other equipments so that receive streaming of video and audio.

You should introduce the following parameters:

IP Address	Number of 32 bits expressed in 4 numbers between 0 and 255 which identifies the receiver inside its network. Every device in the network should have a different IP Address and it is highly recommended that all of them are in the same subnet and with IP addresses into the following range: 10.x.x.x 172.16.0.0 – 172.31.255.255 192.168.x.x
Subnet Mask	Number in IP format that, combined with the IP address, identifies where the equipment is.
IP LAN Soft:	IP address of the PC where the application for exchanging video streamings between the PC and the receiver is installed. If you want, you can download the application <i>IP LAN Soft</i> from the Website: www.ftemaximal.com
MAC	Device address at hardware level. It is unique in each device and it comes from the factory.



You can move through the menus with the buttons and . With the **Red** button you delete the last character. Press **OK** to save the changes.

Search IP Channels

The receiver will carry out a search for channels broadcasted by other equipment connected to the network.

You can receive transmissions of other equipment in mode *Unicast* and *Multicast*.

- *Unicast* is when the information is sent from a unique sender to a unique receiver.
- *Multicast* is when the information is sent through a network to multiple destinations simultaneously. The equipment that work in multicast mode send the information into an IP range between 224.0.0.0 and 239.255.255.255.

In **Search Type** select **Auto** to search for all the channels which are broadcasted by other equipment in your network in multicast mode. If you select the **Host** option, it will look for transmissions of the equipment present in the list **Network Management** that you select.

In the field **Multiplex** you should select the hosts from the list Network Management in which you with to search for channels.

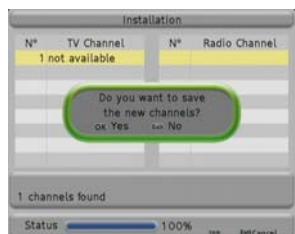
Pressing the **Blue** button or a new window will appear, where you can select the hosts.

You can move the cursor with .
With the **Green** button you select the hosts.
Press **Exit** to go back to the search menu.

If you press the **Green** button, it will carry out a search of the video IP channels.

Press **Exit** to exit.

The **Fast install guide** is now finished.



1.5. Menu overview

Main menu

Channel Management

Move, rename or delete channels,
Program and, create favourite list.

Parental Control

Activate parental control

Tools

Calculator,
Calendar with date management

Installation

Search channels
Network adjustments
Backup

System Settings

Main settings for receiver
for OSD and adapt TV set
Factory default
Software upgrade

Timers

Manual activation for timer events

2. Standard functions

2.1. Switch on the receiver

The receiver has a main switch at the back panel. To switch on, take the switch in position 1. Now the receiver begins to run and show information on its display.

2.2. StandBy

To switch the receiver from Standby (sleep mode) to the working mode, press **Orange** Power button on the left corner at the top of the remote control.

If the receiver had been working before and you did not switch on by main switch, the receiver show the last displayed channel.

When you press it again, the receiver goes back to the stand by mode.

2.3. Teletext

The button **Text** opens the teletext generator.

Automatically the receiver loads page 100 as standard.

Like in your TV set you can open the pages by pressing the buttons **0-9**.

If you want to open, for example, the page 140, you have to press the buttons **1 – 4 – 0**.

When you want close the page, press **Exit**.



2.4. MUTE

With this function, you will be able to shut down the audio completely.

To do it, press the button **Mute** and the warning symbol will be displayed.

By pressing again the button **Mute** the function will be disabled.



2.5. Numeric block on remote control

Over the numeric block in the remote control, you can select directly channels the when you know the stored program place.

If you want for example place 23, you have to press the buttons 2 and 3 and after the button **OK**.

2.6. Switch channels

With the buttons **CH+ / CH-** or you can change the channels also.

Press one button for getting one channel up or down.

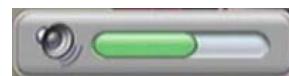
2.7. Change between TV- and Radio channels

When you want change between TV and Radio channels, you have to press the button **TV/R** on the remote control.

2.8. Vol+/Vol- Volume

With the buttons **Vol+ / Vol-** or you can regulate the audio volume.

To do it, you will see a graphic like the one at the left side.



For using this function properly, you need to make an alignment with you TV set.

Turn off the volume of the receiver. For this, press the button **MUTE** on remote control. Now turn up the volume on TV until the moment you hear a noise. Now turn down the volume until the noise desapears. Normally this is around 50-75% of the total volume of the TV set.

2.9. Stop the functions

With the button **Exit** you can stop functions like channels search or close menus.

2.10. Open Main menu

To open the main menu, you have to press the button **MENU**.

The menu system is made in a tree structure

2.11. Watch the last viewed channel

With the **Back** button, you can access to the channel viewed previously.

2.12. Channel list

When all the menus are closed, you can open a channel list by pressing the button **OK**.

With the button **TV/R** you can switch between TV and Radio channels.

With the button **FAV** you can sort this list as follows:

POS, Position in channel list

Name, by alphabetic sort

FTA / CAS sort by free or coded channels

If the position or the name of the channel fits, you can carry out a searching. Press the **Green** button to select the searching mode until the symbol (...) appears in the row *Pos* or *Name*, and introduce the characters with the alphanumeric keyboard.

The handling of the keyboard is like in a mobile phone.

When you press one button several times you will have different results.

Example: If you press button 2: a, b, c and 2

You will get a channel list with the information requested.

2.13. EPG Electronic Program Guide

By pressing the button **EPG** you will start the electronic program guide.

The receiver gets the information of the tuned channel. This information is available only in case that the streaming contains it.

With the buttons you can select a channel and with one event. The **Blue** colour field highlights the current selected event and the **Red** line shows the current time.

With the **Yellow** button you can mark one event. The receiver will switch to this channel once the event has begun. If you select an event which has already started, the receiver switches to this channel immediately.

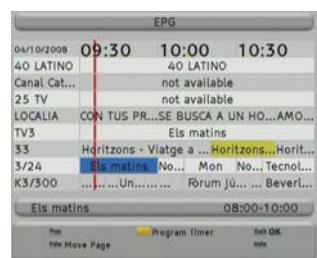
Pressing the button **INFO** you will get more detailed information about the event.

With the arrow buttons you can move along the text.

2.14. Favourite channel list

If no menu is opened, you can get your favourite channels list by pressing the button **FAV**.

With the buttons **Pup** / **Pdw** you can switch between 8 different lists, if you have marked channels before. With the buttons you can select a channel from this list.



2.15. Menu Audio

If all menus are closed you can open the menu **Audio** by pressing the button **Audio**.

You can change here the audio output in **Stereo**, **Left** and **Right** audio format.

Testing the channels, you will be able to make the most suitable selection.
Standard selection is **Stereo**.



2.16. Signal and Channel information

Pressing the INFO button, with no menu activated, You will see the channel information. This information is the same that appears when you change the channels.

In the signal bar we can see the following information:

Channel Number, Channel Name, current Time and Date, Name of the current event and brief description given by EPG. Start and Stop time of the event and the indication of the current time from the beginning in yellow colour.

This menu disposes of 2 keys of advanced functions, Blue and Yellow keys. Through Blue key, you can get the technical information of the shown channel at the top part of the window, as you can see in the image:

Yellow key allows seeing which will be the next event indicated by EPG, with its start and stop times.

2.17. Changing favourite channels

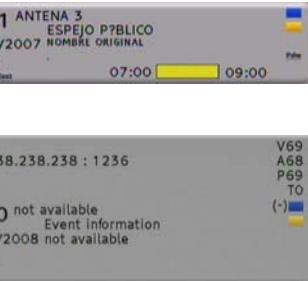
With the buttons **FAV+** and **FAV-** you can switch the favourite channels directly.

The Sequence for the channels is the established one before in main channel list.

2.18. Zoom Function

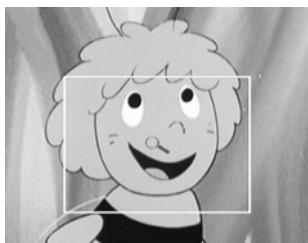
With the **Zoom** button you can see more details of the image.

By pressing the button **OK** you can select the enlargement. If you want to stop, please press **Exit**.



2.19. Subtitles

When no menu is opened, you can start with **Sub** button the subtitle function. Subtitles only can be displayed when the operator transmit them.

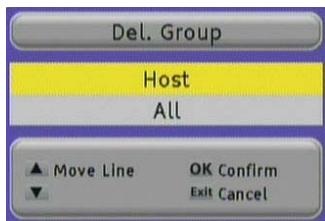


3.1.4. Delete channel groups or all channels

If you want to delete a channel group or all channels, you have to select them and than press the **Green** button **Del. Group**.

In the following submenu you should choose all channels from one **Host** or **All** channels.

With the **OK** button the selection will be done.



3.1.5. Edit channels

If you want to move channels in their position in channel list or you want to change their name, you can do it in the submenu **Edit Channel**.

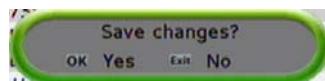
To do it, press the button **INFO**.

In the line **POS** you can change the placement in channel list
In **Operation**, you can select the mode of changing the position of the channel. You can choose between Move (it will shift the rest of channels) and Exchange (it will exchange the position between 2 channels)
In the line **Name** you can modify the actual name of this channel.

The keyboard handling is like in a mobile phone.
When you press one button several times you will have different results.
Example: If you press button 2: a, b, c and 2
With the arrow buttons you can move the cursor in its position.
In this menu, the **Green** button change between normal and capital letters and the **RED** button delete the letters.
With the **OK** button the selection will be done.



The receiver stores the changes when you leave the menu.
Please confirm by selecting with **OK** the message.



3.1.6. List of favourite channels

With the buttons **1** to **8** from the numeric block you can select channels of the favourite channel list 1 to 8.

At the column **Favourite** of the Channel List, you will see which Favourite list each channel is from.

If you want to give to a favourite channel list an own name, you can do it by pressing the button **FAV**.

With the buttons you have to select one list.

In the line you can move the cursor with the buttons .

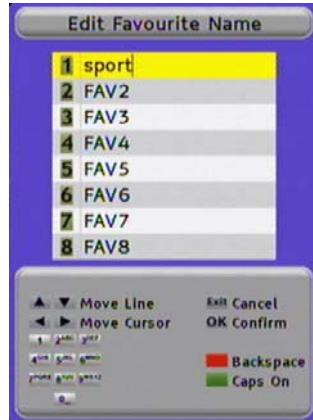
The **RED** button delete letters and the **Green** button change between normal and capital letters.

The keyboard handling is like in a mobile phone.

When you press one button several times you will have different results.

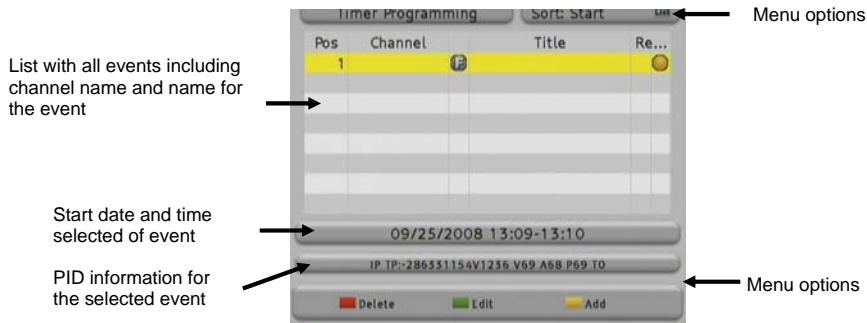
Example: If you press button 2: a, b, c and 2

With the **OK** button the selection will be done.



4. Timers

In menu **Timers** you get one overview about all events which you have programmed. These events can be stored over EPG or direct in this menu.



4.1. Sorting

For having a better view, you can sort the events.

Please press for this the button **L1ST**.

With buttons you can select the follow options:

Sort Channel: Sort the list related to the first letter of the program name in A,B,C....

Sort Name: Sort the events related to the name of event in A,B,C....

Sort Start: Sort the files related to the start time.

Sort Pos: Sort the files by date of creation.



4.2. Delete Timer

With the **Red** button **Delete** you can delete events.

With buttons you can select one event and then press the **Red** button **Delete**, then confirm the following message.

4.3. Edit / Add timer

With the **Green** button **Edit** you can modify one event,

This can be useful, when you want to program one event and you do not know exactly its starting or ending time.

With the **Yellow** button **Add** you can add manual one event.

The using of **Add** and **Edit** is the same.



Channel

Here you can change the channel which will be programmed.

Press the button and select in the new menu the channel you want by the buttons and press **OK**.

Title

You can modify an existing title or create a new one.

If you want to change it, select this line by buttons.

The keyboard handling is like in a mobile phone.

When you press one button several times you will have different results.

Example: If you press button 2: a, b, c and 2

With the arrow buttons you can move the cursor in its position.

In this menu, the **Green** button changes between normal and capital letters and the **RED** button deletes letters.

**Start / Stop**

If you want to modify start and stop times, select this line

by buttons.

Press now and select with the entry you want to change.

The entry will be modified by the buttons .

When you have finished, press **OK**.

**Repeat**

The standard value is **1x**, for one time recording.

With the buttons you can choose the following options also.

2x - 6x

This repeats the timer next day, at same time, same channel.

T This repeat the timer every day at same time, same channel.

W

This repeat the timer every week at same time, same channel.

Monday – Friday

It will repeat the timer since Monday to Friday in the same channel and at the same time.

5. Tools

In this menu you can find two little helper tools.

The calculator is useful for fast calculations and with the calendar you can mark dates for special events like birthdays.



5.1. Calculator

The using of the calculator is very easy.

With numeric block remote control, input the numbers.

For the calculations you use the colour buttons.

Red Button	Addition
Green Button	Subtraction
Yellow Button	Multiplication
Blue Button	Division

The button **OK** is used for = function.

With the buttons **◀** you restore the calculator.



5.2. Calendar

If you open the calendar, the yellow marked field shows the current date. This will be shown in the line under the calendar.

With the buttons **Fav-** and **Fav+** you can switch between the months.

With the buttons **Pup** and **Pdown** you can change the year.

In the first column it is marked the number of week in the year and one blue marked field shows a stored event.

You can select the individual dates with the buttons and .



Add one event (Anniversary)

If you want to add an event, select the date and press the **Yellow** button **Add Anniversary**.

You can type the name for the event like in a mobile phone.

When you press one button several times you will have different results. Example: If you press button 2: a, b, c and 2

With the arrow buttons you can move the cursor in its position. In this menu, the **Green** button changes between normal and capital letters and the **RED** button deletes letters.



If you select later a blue marked field you will see the name info the field.

Delete one event

If you want to delete an event, you have to select it and then press the **Red** button **delete Anniversary**.

Change Alarm

Pushing the **Green** button, you can add an alarm to the event, you will see that this symbol (*) appears close to the date. A visual alarm will appear in the screen the day of the event.

6. System Settings

In the menu **System Settings** you will find all basic adjustments of the Receiver.



6.1. Menu Language

Here you can choose the language which will be shown in the receiver.
You can select:

English, German, French, Spanish, Italian, Portuguese

Please select with the buttons and then press **OK**.



6.2. Audio Language

Here you can choose the audio language for the TV and Radio channels.

Example:

If you select English and the channel you want to see have one audio carrier in English, you will get the audio in English.

If there is no audio carrier in English, you will get the first one which is supported in this channel, for example German.

You can select:

English, German, French, Spanish, Italian, Portuguese

Please select with the buttons and then press **OK**.



6.3. Date and Time

In order to introduce manually the time and date.

Select with the entry you want to change.
The entry will be modified by the buttons .
When you have finished, press **OK**.



6.4. Time Zone

In order to the receiver shows the correct time as well as adjusting the records properly, it is needed the adjustment of the Time Zone where you live.

For UK: Summer time: +1 hour
 Winter time: GMT hour

Please select with the buttons and then press **OK**.



6.5. TV Settings

Here you can adapt your receiver to your TV set and you can select the screen format.

TV-System

Select here which TV system your TV set support.

Selection: **NTSC**, **PAL**, **Secam** and **AUTO**

Please change with the buttons  .

TV-Format

Select here which TV format your TV set has available.

Selection: **4:3**, **16:9** and **AUTO**, please change it with the buttons  .

RF Mode

If you connect your TV or Video set with one IEC coaxial connection at the output **TO TV**, you will need to select which system is supported by this device

Options: **PAL M**, **B/G**, **I**, **D/K** or **NTSC**, please change them with the buttons  .

RF Channel

Here you can select which channel the modulator has to use.

This is only needed if you connect your receiver with the IEC coaxial connection at the output **TO TV** to your TV set.

Selection: Channel **21** to **69**, please change with the buttons  .

Picture Format

This option is only available when you have not selected **TV format** in mode **AUTO**.

Options: **Pan&Scan** or **Letter Box**, please change with the buttons  .

In this option you can choose how the pictures in films with a big format will be adapted to your TV set.

If you select **Pan&Scan** you will see one part of the film and at the left and right sides it will be cut

In **Letter Box**, the picture will become smaller and you will see on top and bottom two black bars.

TV output

This option allows choosing how the receiver will send the colours to the TV set.

Selection: **CVBS**, **RGB**, **SVIDEO** or **YUV**, please change with the buttons  .

Loop VCR

Here you select the priority of an external video signal.

If you have selected **Slave**, the receiver shows every time the signal coming from the VCR Scart connector, when there is signal available. It also can be a signal from DVD player or recorder.

If you have select **Master**, the signal from receiver has priority and you will see only the signal from connector VCR scart when the receiver is in Standby mode.

Selection: **Master** or **Slave**, please change with the buttons  .

LPC Mode

Not available in this model.

Sleep

If you want shut down the receiver automatically, you can choose here the time for the sleep timer.

Selection: **15**, **30**, **45**, **60**, **75**, **90**, **105**, **120** or **Sleep Off**

Please change it with the buttons  .

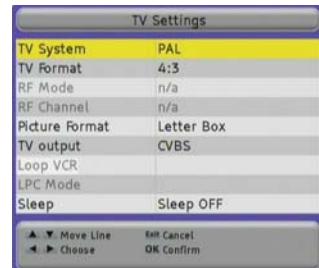
6.6. OSD Settings

Remote control

Here you can change the transmission code for the remote control if you have problems with other devices.

Please change it with the buttons  .

For saving the changes, please press **OK**.



Do not forget to change also the code on the remote control.

For this, you have to change the position of a switch in the remote control.

You have to select the same position in the receiver than in the remote control.

Info bar delay

Here you can select how long the information of the OSD will be displayed on the screen.

Selection: **1 to 10 sec.**

Please change it with the buttons  .



Number of Sequential Channel

Selecting **Yes** in this option, the positions of the channels will be occupied continuously and sequentially. Although you move the position of one channel, you will shift the positions to avoid leaving empty channels.

Selecting **No**, you can leave empty channels if we shift the position of one channel.

6.7. Version

Here you get information about the hard and software from your receiver.

Manufacturer	Manufacturer of the receiver.
Model	Exact article name.
Hardware	Revisions number from main PCB
Loader	Version for boot loader
Software	Version for installed software
FP	Not available in this model
Guarantee	Beginning of the warranty time
CRC	Checksum of the EEprom

Version	
Manufacturer	FTE
Model	MAX IP90
Hardware	V1.0.0
Loader	V1.0.2
Software	V2.2.2
FP	
Guarantee	09/26/2008
CRC	4A86145A

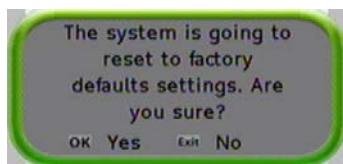
OK Exit Exit

6.8. Factory Default

With this option you can restore the receiver totally to the status when the receiver was used the first time.



Caution: Make this only if you are 100% sure, this step can is irreversible.



6.9. Software Upgrade

With this menu you can transfer data and install new software.

With the buttons   you can choose between the following possibilities.

Software upgrade	
Device	Serial port (Download)
Program search	None
Search moment	n/a
Antenna	IP
Transponder	12604 H 22000
  Move Line	Exit Cancel
  Choose	OK Confirm

Serial port (Download) Start data download via RS-232 connection.

Air (now) Starts data download via OTA immediately

Air (programmed) Starts data download via OTA at a programmed time

7. Parental Control

With this menu, you can activate the parental control where is necessary to give one password before opening channels or making settings.

7.1. Set Lock

To activate the parental control, select with button **Set Lock** and then press .

You have to give the standard code **0000** or your individual one with the numeric block from the remote control. Then press **OK** button.



7.2. Channel lock

Here you can activate the parental control for channels if you have marked it in **Channel Management** for **Lock**.

For this, select with the buttons the line **Channel Lock**

and then press .

You have to give the standard code **0000** or your individual one with the numeric block from remote control. Then press **OK** button.



7.3. Installation Lock

Here you can activate the parental control for the menu **Parental control**, **System Settings** and **Installation**.

For this, select with the buttons the line **Installation Lock**

and then press .

You have to give the standard code **0000** or your individual one with the numeric block from remote control. Then press **OK** button.

7.4. Change Password

When you want to change the standard password, select for this with the buttons **Change Password** and press **OK** button.

Old Password

Input here the actual password

New Password

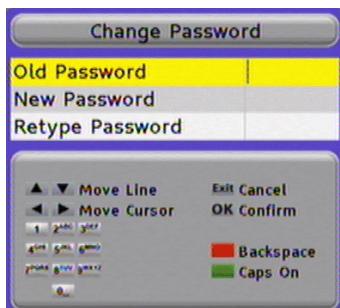
Input here the new password you want.

Password must have 4 digit.

Retype Password

Retype here the new password

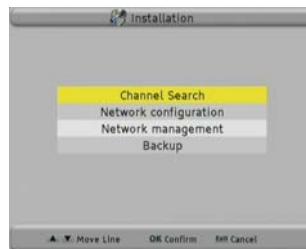
and press **OK** button.



If you loose in any time the standard or your individual password you can unlock it with master password **5100**.

8. Installation

Over this menu you can search for new channels **Channel Search**, modify the frequency list **MUX Management**, or make backups.



8.1. Channel Search

The receiver will carry out a search for channels broadcasted by other equipment connected to the network.

You can receive transmissions of other equipment in mode *Unicast* and *Multicast*.

- *Unicast* is when the information is sent from a unique sender to a unique receiver.
- *Multicast* in when the information is sent through a network to multiple destinations simultaneously. The equipment that work in multicast mode send the information into an IP range between 224.0.0.0 and 239.255.255.255.

In **Search Type** select **Auto** to search for all the channels which are broadcasted by other equipment in your network in multicast mode. If you select the **Host** option, it will look for transmissions of the equipment present in the list **Network Management** that you select.

In the field **Multiplex** you should select the hosts from the list Network Management in which you wish to search for channels.

Pressing the **Blue** button or a new window will appear, where you can select the hosts.

You can move the cursor with .

With the **Green** button you select the hosts.

Press **Exit** to go back to the search menu.

If you press the **Green** button, it will carry out a search of the video IP channels.

Press **Exit** to exit.

8.2. Network Configuration

The receiver will require the introduction of the needed parameters to be able to get connected to a network, as well as to be visible to other equipments so that receive streaming of video and audio.

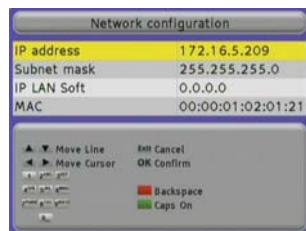
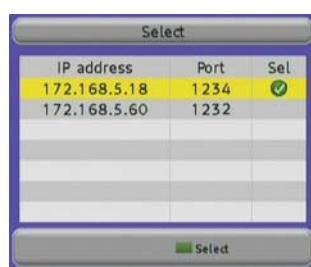
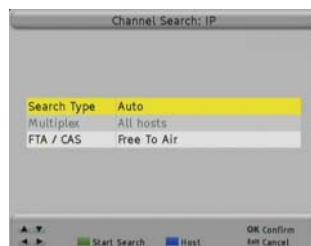
You should introduce the following parameters:

IP Address

Number of 32 bits expressed in 4 numbers between 0 and 255 which identifies the receiver inside its network.

Every device in the network should have a different IP Address and it is highly recommended that all of them are in the same subnet and with IP addresses into the following range:

10.x.x.x
172.16.0.0 – 172.31.255.255
192.168.x.x



Subnet Mask	Number in IP format that, combined with the IP address, identifies where the equipment is.
IP LAN Soft:	IP address of the PC where the application for exchanging video streamings between the PC and the receiver is installed. If you want, you can download the application <i>IP LAN Soft</i> from the Website: www.ftemaximal.com
MAC	Device address at hardware level. It is unique in each device and it comes from the factory.

You can move through the menus with the buttons and . With the **Red** button you delete the last character. Press **OK** to save the changes.

8.3. Network Management

In this menu you can manage the equipment you decide to receive streaming from, in mode *Unicast*.

You can move through the list with the buttons .

Pressing the **Red** button you can delete a host from the list. With the **Yellow** key a new window will appear where you will be able to add a new host.

At *IP Address* introduce the IP address of the sender device.

Every device in the network should have a different IP Address and it is highly recommended that all of them are in the same subnetwork and with IP addresses into the following range:

10.x.x.x
172.16.0.0 – 172.31.255.255
192.168.x.x

At *Port* introduce the number of the port where the information will be received. The port must be an even number in the range between 1024 – 65534.

You can move with buttons and . With the **Red** button you will delete the last character. Press **OK** to add the new host.

With the **Green** button you can edit the information of the selected host. With the **Blue** button the receiver will not take into account the selected receiver when you carry out a search of IP channels.

8.4. Backup

Here you can save and load personal backups.

Load Backup

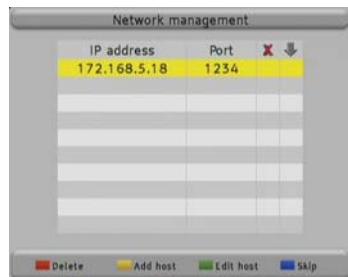
This function load one backup from internal receiver memory.

Save Backup

This function saves one backup to the internal receiver memory. This process overwrites whatever backup made before.

Delete Backup

This function deletes one backup in the internal receiver memory.



9. The equipment of the receiver

9.1. Technical data

The features of a digital receiver depend only on a part of its hardware / electronic components.
A big part of the functions are made by the software.

General

Reference	MAX IP90
Code	0710020
Reception range	IPTV
Memory places	5000
OSD Language	English, German, French, Spanish, Italian, Portuguese
Codes for remote control	3
Electronic Program Guide (EPG)	Yes
Integrated tele text decoder	Yes
Memory for tele text	800 pages
Data connections	RS-232

VIDEO

Decoding	MPEG-2 & MEPG-1 compatible
Bit Rate	Max 15Mbps
Output	NTSC / SECAM / PAL
Screen format	4:3 / 16:9 / Auto
Resolution	720X480 @ 30fps; 720X576 @ 25fps
Connections	Scart or RCA

AUDIO

Decoding	MPEG-2/MEPG-1 layer 1&2
Sampling rate	32 / 44,1 / 48
Connections	RCA, AC3 coaxial

NETWORK

Network Interface	10/100 (RJ45) half/full duplex, auto negotiate
Network Protocols (over IP v4)	UDP/RTP SAP/SDP TCP IGMP v1, v2
Input Max Bitrate	9.4 Mbps

DIVERS

Power supply	90~260VAC 50Hz~60Hz
Power consumption	Typ. 8 watts / Máx. 10 watts
Operation temperature	+5° to +40°
Size (BxTxH)	280x195x60 mm
Weight	1.3Kg